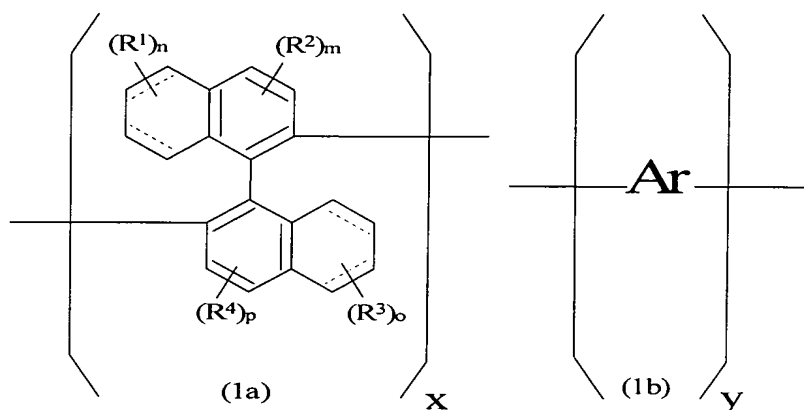


**Amendments to the Claims:**

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Previously Presented) An electroluminescence polymer comprising a binaphthyl derivative structural unit represented by the following formula (1a) and an aryl structural unit represented by the following formula (1b):



wherein:

$R^1$ ,  $R^2$ ,  $R^3$ , and  $R^4$  are each independently hydrogen, alkyl, alkenyl, alkynyl, aralkyl, aryl, heteroaryl, alkoxyl, aryloxy, or aliphatic heterocyclic group;

the double bonds of the binaphthyl structural unit indicated by dashed lines and solid lines are each an unsaturated double bond or a saturated single bond;

m and p are each independently 0, 1, or 2;

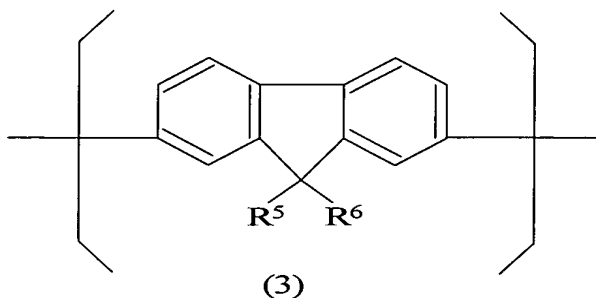
n and o are each independently 0, 1, 2, 3, 4, 5, 6, 7, or 8;

when m, n, o, or p is an integer of 2 or greater, the two or more  $R^1$ 's,  $R^2$ 's,  $R^3$ 's, or  $R^4$ 's may or may not be identical to one another;

x is in a range of from 5 to 50 mol%;

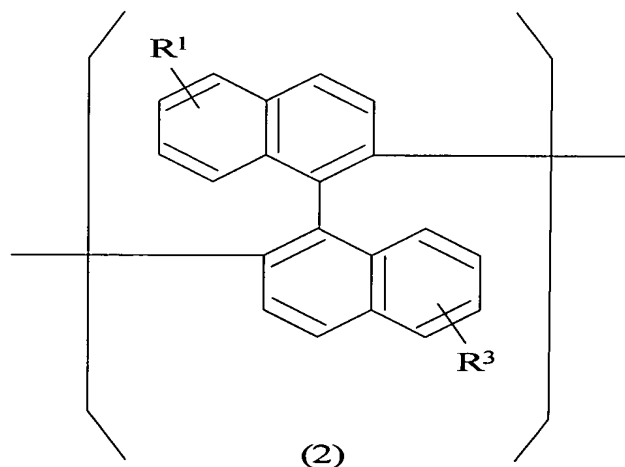
y is in a range of 50 to 95 mol%; and

Ar is an aryl structural unit that can form an electroluminescent  $\pi$ -conjugated polymer, the aryl structural unit being a fluorene derivative structural unit represented by formula (3):



where  $R^5$  and  $R^6$  are each independently hydrogen, alkyl, alkenyl, alkynyl, aralkyl, aryl, heteroaryl, alkoxy, aryloxy, or aliphatic heterocyclic group.

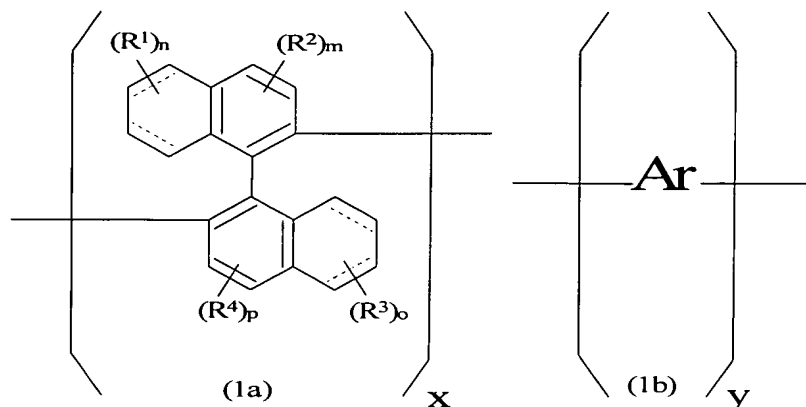
2. (Original) The electroluminescence polymer according to claim 1, wherein the binaphthyl derivative structural unit of the formula (1a) is a structural unit represented by the following formula (2):



wherein  $R^1$  and  $R^3$  are each independently hydrogen, alkyl, alkenyl, alkynyl, aralkyl, aryl, heteroaryl, alkoxy, aryloxy, or aliphatic heterocyclic group.

3-4. (Canceled)

5. (Previously Presented) An electroluminescence polymer comprising a binaphthyl derivative structural unit represented by the following formula (1a) and an aryl structural unit represented by the following formula (1b):



wherein:

$R^1$ ,  $R^2$ ,  $R^3$ , and  $R^4$  are each independently hydrogen, alkyl, alkenyl, alkynyl, aralkyl, aryl, heteroaryl, alkoxy, aryloxy, or aliphatic heterocyclic group;

the double bonds of the binaphthyl structural unit indicated by dashed lines and solid lines are each an unsaturated double bond or a saturated single bond;

$m$  and  $p$  are each independently 0, 1, or 2;

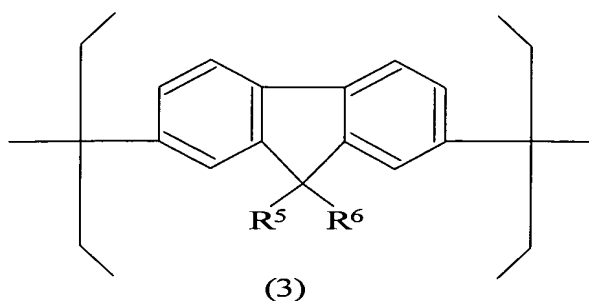
$n$  and  $o$  are each independently 0, 1, 2, 3, 4, 5, 6, 7, or 8;

when  $m$ ,  $n$ ,  $o$ , or  $p$  is an integer of 2 or greater, the two or more  $R^1$ s,  $R^2$ s,  $R^3$ s, or  $R^4$ s may or may not be identical to one another;

$x$  is in a range of from 5 to 50 mol%;

$y$  is in a range of 50 to 95 mol%; and

Ar is an aryl structural unit that can form an electroluminescent  $\pi$ -conjugated polymer, the aryl structural unit being a fluorene derivative structural unit represented by formula (3):



where  $R^5$  and  $R^6$  are each independently hydrogen, alkyl, alkenyl, alkynyl, aralkyl, aryl, heteroaryl, alkoxyl, aryloxy, or aliphatic heterocyclic group; and

at least one of a carbazole derivative structural unit, an anthracene derivative structural unit, a naphthyl derivative structural unit, a biphenyl derivative structural unit, a benzene derivative structural unit, and an aromatic heterocyclic derivative structural unit.

6. (Previously Presented) An organic electroluminescence device, comprising a luminescent layer sandwiched between a pair of electrodes, the luminescent layer formed of the electroluminescence polymer according to claim 1.

7. (Original) A display comprising the organic electroluminescence device according to claim 6.

8–9. (Canceled)

10. (Previously Presented) An organic electroluminescence device, comprising a luminescent layer sandwiched between a pair of electrodes, the luminescent layer formed of the electroluminescence polymer according to claim 2.

11–12. (Canceled)

13. (Previously Presented) An organic electroluminescence device, comprising a luminescent layer sandwiched between a pair of electrodes, the luminescent layer formed of the electroluminescence polymer according to claim 5.

14. (New) The electroluminescence polymer according to claim 1, wherein the electroluminescence polymer is end-capped on at least one end with an end-capping agent

selected from the group consisting of a monobromotriphenylamine derivative, a condensed polycyclic monobromo compound, and a monobromofluorene derivative.

15. (New) The electroluminescence polymer according to claim 1, wherein  $R^5$  and  $R^6$  of formula (3) are each independently an octyl or ethylhexyl group.